

What is claimed is:

1. A rotor of an induction starting synchronous motor, said rotor including permanent magnets and induction coils having both ends short-circuited in a core, wherein said permanent magnets are received in said core and one or more said permanent magnets are arranged side by side in a longitudinal direction of said core to form sets of permanent magnets, and two sets of said permanent magnets form respective poles of said induction starting synchronous motor, and wherein said two sets of permanent magnets forming each of said poles are located inclined in a cross-sectional plane of said core by rotating the two sets of permanent magnets about corners of said permanent magnets nearest said induction coils as rotating axes into directions such that magnetic fluxes induced by said two sets of permanent magnets are cancelled each other.

2. The rotor of the induction starting synchronous motor as set forth in claim 1 wherein said core is formed with slots each receiving therein said two sets of permanent magnets, each said slot being formed at its mid portion with a protrusion and a cavity so as not to permit the permanent magnets to contact each other.